

## 12085500 LA GRANDE RESERVOIR AT LA GRANDE, WA

Puget Sound Basin  
Nisqually Subbasin

LOCATION.--Lat 46°49'23", long 122°18'13" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.33, T.16 N., R.4 E., Thurston County, WA, Hydrologic Unit 17110015, at left end of gate control structure, 1.1 mi southeast of La Grande, 1.7 mi downstream from Alder Dam, and at mile 42.5.

DRAINAGE AREA.--289 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1945 to current year. January 1945 to September 1951 included in combined adjustment to monthly flow of Nisqually River at La Grande. Month-end contents January 1945 to September 1950, published in WSP 1316.

GAGE.--Water-stage recorder. Datum of gage is 7.61 ft below NGVD of 1929 (levels by City of Tacoma). Prior to June 12, 1947, month-end gage heights furnished by City of Tacoma from temporary gages in pool upstream from dam.

REMARKS.--Reservoir is formed by concrete gravity dam completed in 1944; storage began in February 1945. Useable storage, 1,053 acre-ft between gage heights 910 ft, minimum practical head, and 935 ft, normal reservoir level. Dead storage below gage height 910 ft, 1,629 acre-ft. Figures given herein represent total contents. Water used by Tacoma Public Utilities for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,760 acre-ft, May 14, 1950, gage height, 936.4 ft; minimum contents observed since reservoir first filled, 1,370 acre-ft, Aug. 24, 1956, gage height, 900.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,660 acre-ft, Apr. 13, gage height, 934.60 ft; minimum contents, 1,657 acre-ft, Oct. 22, gage height, 910.97 ft.

#### MONTH-END GAGE HEIGHT AND CONTENTS AT 2400 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

| Date               | Gage height<br>(feet) | Contents<br>(acre-feet) | Change in contents |
|--------------------|-----------------------|-------------------------|--------------------|
| September 30       | 928.48                | 2,342                   | --                 |
| October 31         | 929.46                | 2,390                   | +48                |
| November 30        | 929.58                | 2,396                   | +6                 |
| December 31        | 931.20                | 2,478                   | +82                |
| Calendar Year 2007 | --                    | --                      | +1                 |
| January 31         | 930.17                | 2,426                   | -52                |
| February 29        | 930.05                | 2,420                   | -6                 |
| March 31           | 933.11                | 2,579                   | +159               |
| April 30           | 927.60                | 2,299                   | -280               |
| May 31             | 930.20                | 2,427                   | +128               |
| June 30            | 928.33                | 2,334                   | -93                |
| July 31            | 927.74                | 2,306                   | -28                |
| August 31          | 928.91                | 2,363                   | +57                |
| September 30       | 931.28                | 2,483                   | +120               |
| Water Year 2008    | --                    | --                      | +141               |